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OM protein - protein search, using sw method

Run on: January 16 2003, 16:43:32 ; Search time 5 14286 Seconds  
(without alignments)  
28.606 Million cell updates/sec

Title: US-09-856-070-18

Perfect score: 24

Sequence: 1 KEELM 5

Scoring table: HUSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2060000000

Post-processing: Minimum Match 100%

Listing first 45 summaries

Database :

- Issued Patents AA.\*
- 1: /cqn2\_6/ptdata/2/iaa/5A\_COMB.pep.\*
  - 2: /cqn2\_6/ptdata/2/iaa/5B\_COMB.pep.\*
  - 3: /cqn2\_6/ptdata/2/iaa/6A\_COMB.pep.\*
  - 4: /cqn2\_6/ptdata/2/iaa/6B\_COMB.pep.\*
  - 5: /cqn2\_6/ptdata/2/iaa/PTUS\_COMB.pep.\*
  - 6: /cqn2\_6/ptdata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	24	100.0	53	4	US-09-187-789-59
2	24	100.0	53	4	US-09-139-600-54
3	24	100.0	171	2	US-08-394-189B-13
4	24	100.0	171	3	US-08-258-287B-40
5	24	100.0	171	3	US-08-368-704C-40
6	24	100.0	171	5	PT-US93-05705-13
7	24	100.0	172	2	US-08-394-189B-26
8	24	100.0	172	2	US-08-394-189B-27
9	24	100.0	330	1	US-08-410-167A-4
10	24	100.0	330	2	US-08-898-650-1
11	24	100.0	330	4	US-99-191-126-1
12	24	100.0	434	1	US-08-111-939-13
13	24	100.0	434	1	US-09-233-889-7
14	24	100.0	435	1	US-08-111-939-14
15	24	100.0	435	1	US-08-111-939-15
16	24	100.0	435	1	US-08-111-939-16
17	24	100.0	435	1	US-08-452-252-2
18	24	100.0	435	1	US-08-734-550-2
19	24	100.0	435	5	PT-US96-07528-2
20	24	100.0	476	4	US-08-233-889-2
21	24	100.0	476	4	US-08-233-889-3
22	24	100.0	476	4	US-09-233-889-6
23	24	100.0	485	4	US-09-058-260-18
24	24	100.0	492	4	US-08-184-959-2
25	24	100.0	496	4	US-08-450-288-2
26	24	100.0	496	4	US-09-558-679-2
27	24	100.0	501	2	US-08-781-802-4

## ALIGNMENTS

### RESULT 1

US-09-187-789-59

: Sequence 59, Application US/09187789

: Patent No. 6340740

: GENERAL INFORMATION:

: APPLICANT: Alnemri, Elmad S.

: TITLE OF INVENTION: CASPASE-14, AN APOPTOTIC PROTEASE, NUCLEIC ACID ENCODING

: TITLE OF INVENTION: AND METHODS OF USE

: FILE REFERENCE: 480140.434C1

: CURRENT APPLICATION NUMBER: US/09/187,789

: NUMBER OF SEQ ID NOS: 78

: SOFTWARE: PatentIn Ver. 2.0

: SEQ ID NO 59

: LENGTH: 53

: TYPE: PRI

: ORGANISM: Mus musculus

US-09-187-789-59

Query Match

Best local Similarity 100.0%, Score 24, DB 4, Length 53;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KEELM 5

Db 5 KEELM 9

### RESULT 2

US-09-139-600-54

: Sequence 54, Application US/09139600

: Patent No. 6432538

: GENERAL INFORMATION:

: APPLICANT: Alnemri, Elmad S.

: TITLE OF INVENTION: CASPASE-14, AN APOPTOTIC PROTEASE, NUCLEIC ACID ENCODING

: TITLE OF INVENTION: AND METHOD OF USE

: FILE REFERENCE: 480140.434

: CURRENT APPLICATION NUMBER: US/09/139,600

: NUMBER OF SEQ ID NOS: 65

: SOFTWARE: PatentIn Ver. 2.0

: SEQ ID NO 54

: LENGTH: 53

: TYPE: PRI

: ORGANISM: Mus musculus

US-09-139-600-54

Query Match

Best local Similarity 100.0%, Score 24, DB 4, Length 53;

Best Local Similarity 100.0%; Pred. No. 52;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KEELM 5  
IIIII  
DB 5 KEELM 9

## RESULT 4

US-08-394-189B 13  
Sequence 13, Application US/08394189B  
Patent No. 5962401  
GENERAL INFORMATION:  
APPLICANT: Horvitz, Robert  
APPLICANT: Yuan, Junying  
APPLICANT: Shiham, Shai  
TITLE OF INVENTION: RELATEDNESS OF HUMAN INTERLEUKIN-1  
TITLE OF INVENTION: BETA CONVERSION GENE TO A C. ELEGANS CELL DEATH  
TITLE OF INVENTION: GENE, INHIBITORY PORTIONS OF THESE GENES AND...  
NUMBER OF SEQUENCES: 27  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Clark & Elbing LLP  
STREET: 176 Federal Street  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02110  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/394,189B  
FILING DATE: 24 FEB-2005  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/282,211  
FILING DATE: 12-JUL-1994  
APPLICATION NUMBER: 07/984,182  
FILING DATE: 20 NOV-1992  
APPLICATION NUMBER: 07/897,788  
FILING DATE: 12-JUN-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Hieker-Brady, Kristina  
REGISTRATION NUMBER: 39,109  
REFERENCE/DOCKET NUMBER: 01997/211001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617 428 0200  
TELEFAX: 617-428-7045  
TELEX:  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 171 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
OTHER INFORMATION: Xaa at position 117 is Ala or Val.

US-08-394-189B-13  
Query Match 100.0%; Score 24; DB 2; Length 171;  
Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KEELM 5  
IIIII  
DB 69 KEELM 74

## RESULT 4

US-08-258-287B-40

Best Local Similarity 100.0%; Pred. No. 52;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KEELM 5  
IIIII  
DB 5 KEELM 9

US-08-394-189B 13  
Sequence 13, Application US/08394189B  
Patent No. 5962401  
GENERAL INFORMATION:  
APPLICANT: Horvitz, Robert  
APPLICANT: Yuan, Junying  
APPLICANT: Shiham, Shai  
TITLE OF INVENTION: RELATEDNESS OF HUMAN INTERLEUKIN-1  
TITLE OF INVENTION: BETA CONVERSION GENE TO A C. ELEGANS CELL DEATH  
TITLE OF INVENTION: GENE, INHIBITORY PORTIONS OF THESE GENES AND...  
NUMBER OF SEQUENCES: 27  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Clark & Elbing LLP  
STREET: 176 Federal Street  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02110  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/394,189B  
FILING DATE: 24 FEB-2005  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/282,211  
FILING DATE: 12-JUL-1994  
APPLICATION NUMBER: 07/984,182  
FILING DATE: 20 NOV-1992  
APPLICATION NUMBER: 07/897,788  
FILING DATE: 12-JUN-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Hieker-Brady, Kristina  
REGISTRATION NUMBER: 39,109  
REFERENCE/DOCKET NUMBER: 01997/211001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617 428 0200  
TELEFAX: 617-428-7045  
TELEX:  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 171 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
OTHER INFORMATION: Xaa at position 117 is Ala or Val.

Sequence 40, Application US/08258287B  
Patent No. 6087735  
GENERAL INFORMATION:  
APPLICANT: Yuan, Junying  
APPLICANT: Miura, Masayuki  
TITLE OF INVENTION: Programmed Cell Death Genes and Proteins  
NUMBER OF SEQUENCES: 85  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sterne, Kessler, Goldstein & Fox  
STREET: 1100 New York Avenue, Suite 600  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/258,287B  
FILING DATE: 10-JUN-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/080,850  
FILING DATE: 24-JUN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Bugalsky, Lawrence B.  
REGISTRATION NUMBER: 35,086  
REFERENCE/DOCKET NUMBER: 0609 3020001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 371-2600  
TELEFAX: (202) 371-2540  
TELEX: 248636 SSK  
INFORMATION FOR SEQ ID NO: 40:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 171 amino acids  
TYPE: amino acid  
TOPOLOGY: both

Query Match 100.0%; Score 24; DB 3; Length 171;  
Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KEELM 5  
IIIII  
DB 69 KEELM 73

## RESULT 5

US-08-368-704C-40  
Sequence 40, Application US/08368704C  
Patent No. 6087160  
GENERAL INFORMATION:  
APPLICANT: Yuan, Junying  
APPLICANT: Miura, Masayuki  
TITLE OF INVENTION: Programmed Cell Death Genes and Proteins  
NUMBER OF SEQUENCES: 95  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sterne, Kessler, Goldstein & Fox  
STREET: 1100 New York Avenue, Suite 600  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/368,704C

US-08-394-189B-13  
Query Match 100.0%; Score 24; DB 2; Length 171;  
Best Local Similarity 100.0%; Pred. No. 1.5e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KEELM 5  
IIIII  
DB 69 KEELM 74

## RESULT 4

US-08-258-287B-40

```

? FILING DATE: 4-JAN-1995
? CLASSIFICATION: 435
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 08/258,287
? FILING DATE: 10-JUN-1994
? CLASSIFICATION: 435
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 08/080,850
? FILING DATE: 24-JUN-1993
? ATTORNEY/AGENT INFORMATION:
? NAME: Hugalisky, Lawrence B.
? REGISTRATION NUMBER: 45,096
? REFERENCE/DOCKET NUMBER: 5609,3920002
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (202) 371-2600
? TELEFAX: (202) 371-2540
? TELEX: 248636 SSK
? INFORMATION FOR SEQ ID NO: 40:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 171 amino acids
? TYPE: amino acid
? TOPOLOGY: both
US-08-368-7042-40

```

```

Query Match      100.0%: Score 24; DB 3; Length 171;
Best Local Similarity 100.0%: Pred. No. 1.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 KEELM 5
      |||||
DB 69 KEELM 73

```

## RESULT 6

PCT-US93-05705-13

Sequence 13, Application PC/US9305705

## GENERAL INFORMATION:

```

? TITLE OF INVENTION: Inhibitors of Technology
? NUMBER OF SEQUENCES: 14
? CORRESPONDENCE ADDRESS:
? ADDRESSER: Massachusetts Institute of Technology
? STREET: 77 Massachusetts Avenue
? CITY: Cambridge
? STATE: Massachusetts
? COUNTRY: U.S.A.
? ZIP: 02139

```

## COMPUTER READABLE FORM:

MEDIUM TYPE: diskette

## CURRENT APPLICATION DATA:

APPLICATION NUMBER: PC/US93/05705

FILING DATE: 19930711

## INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 171 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

PCT-US93-05705-13

## Query Match

Best Local Similarity 100.0%: Score 24; DB 5; Length 171;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

QY 1 KEELM 5
      |||||
DB 69 KEELM 73

```

## RESULT 7

US-08-394-189B-26

Sequence 26, Application US/08394189B

Patent No. 5962301

```

? GENERAL INFORMATION:
? APPLICANT: Horvitz, Robert
? APPLICANT: Yuan, Junying
? APPLICANT: Shaham, Shai
? TITLE OF INVENTION: RELATEDNESS OF HUMAN INTERLEUKIN-1
? TITLE OF INVENTION: BETA CONVERTASE GENE TO A C. ELEGANS CELL DEATH
? TITLE OF INVENTION: GENE, INHIBITORY PORTIONS OF THESE GENES AND...
? NUMBER OF SEQUENCES: 27
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: Clark & Elbing LLP
? STREET: 176 Federal Street
? CITY: Boston
? STATE: MA
? COUNTRY: USA
? ZIP: 02110
? COMPUTER READABLE FORM:
? MEDIUM TYPE: diskette
? COMPUTER: IBM Compatible
? OPERATING SYSTEM: DOS
? SOFTWARE: FASTSEQ for Windows Version 2.0
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/394,189B
? FILING DATE: 24-SEP-2005
? CLASSIFICATION: 435
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/282,211
? FILING DATE: 12-JUL-1994
? APPLICATION NUMBER: 07/984,182
? FILING DATE: 20-NOV-1992
? APPLICATION NUMBER: 07/897,788
? FILING DATE: 12-JUN-1992
? ATTORNEY/AGENT INFORMATION:
? NAME: HICKER-BRADY, Kristina
? REGISTRATION NUMBER: 39,109
? REFERENCE/DOCKET NUMBER: 01997/211001
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 617-428-0200
? TELEFAX: 617-428-7045
? TELEX:
? INFORMATION FOR SEQ ID NO: 26:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 172 amino acids
? TYPE: amino acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? FRAGMENT TYPE: internal
US-08-394-189B-26

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Query Match 100.0%: Score 24; DB 2; Length 172;

Best Local Similarity 100.0%: Pred. No. 1.5e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

QY 1 KEELM 5
      |||||
DB 69 KEELM 73

```

## RESULT 8

US-08-394-189B-27

Sequence 27, Application US/38394189B

Patent No. 5962301

## GENERAL INFORMATION:

APPLICANT: Horvitz, Robert

APPLICANT: Yuan, Junying

APPLICANT: Shaham, Shai

TITLE OF INVENTION: RELATEDNESS OF HUMAN INTERLEUKIN-1

TITLE OF INVENTION: BETA CONVERTASE GENE TO A C. ELEGANS CELL DEATH

TITLE OF INVENTION: GENE, INHIBITORY PORTIONS OF THESE GENES AND...

NUMBER OF SEQUENCES: 27

CORRESPONDENCE ADDRESS:

ADDRESSEE: Clark &amp; Elbing LLP

STREET: 176 Federal Street

CITY: Boston  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02110  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FASTIO for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/434.189B  
 FILING DATE: 24-FEB-2005  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/282,211  
 FILING DATE: 12-JUL-1994  
 APPLICATION NUMBER: 07/984,182  
 FILING DATE: 20-NOV-1992  
 APPLICATION NUMBER: 07/897,788  
 FILING DATE: 12-JUN-1992  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Rickett Brady, Kristina  
 REGISTRATION NUMBER: 49,109  
 REFERENCE/DOCKET NUMBER: 01997/211001  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617-428-0200  
 TELEFAX: 617-428-7045  
 TELEX:  
 INFORMATION FOR SEQ ID NO: 27:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 172 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 FRAGMENT TYPE: internal  
 US-08-434.189B-27

Query Match 100.0%; Score 24; DB 2; Length 172;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0.

QY 1 KEELM 5  
 DB 69 KEELM 73

RESULT 9  
 US-08-410.167A-4  
 Sequence 4, Application US/08410167A  
 Patent No. 5774273  
 GENERAL INFORMATION:  
 APPLICANT: Tokuzo NISHINO, Shinichi OHNUMA, Manabu SHIUKI,  
 APPLICANT: Chikara OHITO, Chika ASADA, Yuka HIGUCHI, Yoshie TAKEUCHI  
 TITLE OF INVENTION: Geranylgeranyl-Diphosphate Synthase and DNA  
 NUMBER OF SEQUENCES: 4  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Kenyon & Kenyon  
 STREET: One Broadway  
 CITY: New York  
 STATE: NY  
 COUNTRY: US  
 ZIP: 10004  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: 3- Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS 6.2  
 SOFTWARE: WordPerfect 6.1 Windows  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/410.167A  
 FILING DATE: 24-MAR-1995  
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 6-53804  
 FILING DATE: 24-MAR-1994  
 APPLICATION NUMBER: JP 6-315572  
 FILING DATE: 25-NOV-1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Edward W. Greason  
 REGISTRATION NUMBER: 18,918  
 REFERENCE/DOCKET NUMBER:  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212)425-7200  
 TELEFAX: (212)425-5288  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 330 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 HYPOTHETICAL: NO  
 ORIGINAL SOURCE:  
 ORGANISM: Sulfolobus acidocaldarius  
 STRAIN: ATCC 33909  
 US-08-410.167A-4  
 Query Match 100.0%; Score 24; DB 1; Length 330;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0.

QY 1 KEELM 5  
 DB 271 KEELM 275

RESULT 10  
 US-08-898-560-1  
 Sequence 1, Application US/08898560  
 Patent No. 5935832  
 GENERAL INFORMATION:  
 APPLICANT: Hiroyuki NAKANE, Chikara OHITO, Shinichi OHNUMA,  
 APPLICANT: Kazutake HIROOKA, Tokuzo NISHINO  
 TITLE OF INVENTION: Farnesyl Diphosphate Synthase  
 NUMBER OF SEQUENCES: 14  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Kenyon & Kenyon  
 STREET: One Broadway  
 CITY: New York  
 STATE: NY  
 COUNTRY: USA  
 ZIP: 10004  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: 3- Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS 6.2  
 SOFTWARE: WordPerfect 6.1 Windows  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/898.560  
 FILING DATE: Concurrent Herewith  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 8-213211  
 FILING DATE: 24-JUL-96  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Edward W. Greason  
 REGISTRATION NUMBER: 18,918  
 REFERENCE/DOCKET NUMBER: 77670/495  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212)425-7200  
 TELEFAX: (212)425-5288  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 330 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear

MOLECULE TYPE: protein  
 ORIGINAL SOURCE:  
 ORGANISM: Sulfolobus acidocaldarius  
 STRAIN: ATCC 33909  
 FEATURE:  
 NAME/KEY: Aspartic domain  
 LOCATION: 82-86  
 US-08-898-560-1

Query Match 100.0%; Score 24; DB 2; Length 330;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KEELM 5  
 DB 271 KEELM 275

RESULT 11  
 US-09-101-126-1

Sequence 1, Application US-09-061126  
 Patent No. 6316216  
 GENERAL INFORMATION:  
 APPLICANT: OHIO, CHIKARA  
 APPLICANT: NAKANE, HIROYUKI  
 APPLICANT: NISHINO, TOKUZO  
 APPLICANT: OHNUMA, SHINICHI  
 APPLICANT: HIROOKA, KAZUTAKE  
 TITLE OF INVENTION: MUTATED PRENYL DIPHOSPHATE SYNTHASES  
 FILE REFERENCE: 77670/566  
 CURRENT APPLICATION NUMBER: US/09/101,126  
 EARLIER FILING DATE: 1999-04-27  
 EARLIER FILING DATE: 1997-10-29  
 EARLIER FILING DATE: 1997-10-29  
 EARLIER FILING DATE: 1996-11-05  
 NUMBER OF SEQ ID NOS: 15  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO 1  
 LENGTH: 330  
 TYPE: PRT  
 ORGANISM: Sulfolobus acidocaldarius  
 FEATURE:  
 OTHER INFORMATION: 82-86 is an Asp-rich domain  
 US-09-101-126-1

Query Match 100.0%; Score 24; DB 4; Length 330;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KEELM 5  
 DB 271 KEELM 275

RESULT 12

US-08-111-939-13  
 Sequence 13, Application US/08111939  
 Patent No. 5466951  
 GENERAL INFORMATION:  
 APPLICANT: Kawai, Shinji  
 APPLICANT: Takeshita, Sunao  
 APPLICANT: Okazaki, Makoto  
 APPLICANT: Anan, Egon  
 TITLE OF INVENTION: Bone-Related Carboxypeptidase-Like  
 TITLE OF INVENTION: Protein and process for its production  
 NUMBER OF SEQUENCES: 27  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Finegan, Henderson, Farabow, Garrett &  
 ADDRESSEE: Dumer  
 STREET: 1300 I Street, N.W.  
 CITY: Washington  
 STATE: D.C.

COUNTRY: USA  
 ZIP: 20005-4315  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/111,939  
 FILING DATE: 26-AUG-1993  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 324033/92  
 FILING DATE: 03-DEC-1992  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: JP 238029/92  
 FILING DATE: 28-AUG-1992  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Forman, David S.  
 REGISTRATION NUMBER: 33,694  
 REFERENCE/AGENT NUMBER: 02481,1321-00000  
 TELEPHONE: 202-408-4000  
 TELEFAX: 202-408-4000  
 INFORMATION FOR SEQ ID NO: 13:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 434 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 US-08-111-939-13

Query Match 100.0%; Score 24; DB 1; Length 434;  
 Best Local Similarity 100.0%; Pred. No. 3.7e+02;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KEELM 5  
 DB 418 KEELM 422

RESULT 13

US-09-233-989-7  
 Sequence 7, Application US/09233989  
 Patent No. 6248527  
 GENERAL INFORMATION:  
 APPLICANT: Chen, Hong  
 APPLICANT: Meyer, Joanne  
 TITLE OF INVENTION: Method of detecting risk of type II diabetes based on  
 TITLE OF INVENTION: Mutations found in Carboxypeptidase E  
 FILE REFERENCE: 5800-14, 035809/174130  
 CURRENT APPLICATION NUMBER: US/09/233,989  
 CURRENT FILING DATE: 1999-01-19  
 EARLIER FILING DATE: 1998-10-21  
 NUMBER OF SEQ ID NOS: 10  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO 7  
 LENGTH: 434  
 TYPE: PRT  
 ORGANISM: alysia  
 FEATURE:  
 OTHER INFORMATION: carboxypeptidase E  
 US-09-233-989-7

Query Match 100.0%; Score 24; DB 4; Length 434;  
 Best Local Similarity 100.0%; Pred. No. 3.7e+02;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KEELM 5  
 DB 418 KEELM 422

## RESULT 14

US 08-111-949-14  
 : Sequence 14, Application US/08111949  
 : Patent No. 5460951  
 : GENERAL INFORMATION:  
 : APPLICANT: Kawai, Shinji  
 : APPLICANT: Takeshita, Sunao  
 : APPLICANT: Okazaki, Makoto  
 : APPLICANT: Amann, Egon  
 : TITLE OF INVENTION: Bone Related Carboxypeptidase-Like  
 : TITLE OF INVENTION: Protein and Process for its Production  
 : NUMBER OF SEQUENCES: 27  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &  
 : ADDRESSEE: Dunner  
 : STREET: 1400 I Street, N.W.  
 : CITY: Washington  
 : STATE: D.C.  
 : COUNTRY: USA  
 : ZIP: 20005-3415  
 : MEDIUM TYPE: Floppy disk  
 : COMPUTER: IBM PC compatible  
 : OPERATING SYSTEM: PC-DOS/MS-DOS  
 : SOFTWARE: Patent in Release #1.0, Version #1.25  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/08/111,949  
 : FILING DATE: 26-AUG-1993  
 : CLASSIFICATION: 435  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: JP 324033/92  
 : FILING DATE: 03-DEC-1992  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: JP 230629/92  
 : FILING DATE: 28-AUG-1992  
 : ATTORNEY/AGENT INFORMATION:  
 : NAME: Forman, David S.  
 : REGISTRATION NUMBER: 33,694  
 : REFERENCE/DOCKET NUMBER: 02481.1321 00000  
 : TELECOMMUNICATION INFORMATION:  
 : TELEPHONE: 202-408-4000  
 : TELEFAX: 202-408-4000  
 : INFORMATION FOR SEQ ID NO: 14:  
 : SEQUENCE CHARACTERISTICS:  
 : LENGTH: 435 amino acids  
 : TYPE: amino acid  
 : TOPOLOGY: linear  
 : MOLECULE TYPE: peptide  
 : US 08-111-949-14

Query Match 100.0%; Score 24; DB 1; Length 435;  
 Best Local Similarity 100.0%; Pred. No. 3.7e+02;  
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KEELM 5

Db 419 KEELM 423

## RESULT 15

US 08-111-949-15  
 : Sequence 15, Application US/08111949  
 : Patent No. 5460951  
 : GENERAL INFORMATION:  
 : APPLICANT: Kawai, Shinji  
 : APPLICANT: Takeshita, Sunao  
 : APPLICANT: Okazaki, Makoto  
 : APPLICANT: Amann, Egon  
 : TITLE OF INVENTION: Bone Related Carboxypeptidase-Like  
 : TITLE OF INVENTION: Protein and Process for its Production  
 : NUMBER OF SEQUENCES: 27  
 : CORRESPONDENCE ADDRESS:

: ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &  
 : ADDRESSEE: Dunner  
 : STREET: 1400 I Street, N.W.  
 : CITY: Washington  
 : STATE: D.C.  
 : COUNTRY: USA  
 : ZIP: 20005-3415  
 : MEDIUM TYPE: Floppy disk  
 : COMPUTER: IBM PC compatible  
 : OPERATING SYSTEM: PC-DOS/MS-DOS  
 : SOFTWARE: Patent in Release #1.0, Version #1.25  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/08/111,949  
 : FILING DATE: 26-AUG-1993  
 : CLASSIFICATION: 435  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: JP 324033/92  
 : FILING DATE: 03-DEC-1992  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: JP 230629/92  
 : FILING DATE: 28-AUG-1992  
 : ATTORNEY/AGENT INFORMATION:  
 : NAME: Forman, David S.  
 : REGISTRATION NUMBER: 33,694  
 : REFERENCE/DOCKET NUMBER: 02481.1321-00000  
 : TELECOMMUNICATION INFORMATION:  
 : TELEPHONE: 202-408-4000  
 : TELEFAX: 202-408-4000  
 : INFORMATION FOR SEQ ID NO: 15:  
 : SEQUENCE CHARACTERISTICS:  
 : LENGTH: 435 amino acids  
 : TYPE: amino acid  
 : TOPOLOGY: linear  
 : MOLECULE TYPE: peptide  
 : US-08-111-949-15  
 : Query Match 100.0%; Score 24; DB 1; Length 435;  
 : Best Local Similarity 100.0%; Pred. No. 3.7e+02;  
 : Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 : Qy 1 KEELM 5  
 : Db 419 KEELM 423  
 : Search completed: January 16, 2003, 16:59:11  
 : Job time : 6.14286 secs